Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Multi-Step Unit Conversions HW**

1. There is a food fight in the cafeteria. It costs $0.25 for 18 grams of mashed potato, and each person is given 1 hot dog with every 24 grams of mashed potato they get. If Alicia has 14 quarters, how many hot dogs can she get?
2. A car rental place has a special on cars – a Toyota 4-Runner can be rented for $14.25 an hour, and a Porsche 911 can be rented for $35 an hour. How many hours can Ajania rent the 4-Runner if she has $125.46?
3. At a zucchini party, 25 people are given 14 zucchinis each. If there are 2 zucchinis in a pound and a pound costs $1.25, how much money does Zoe (the hostess) have to spend so that everyone has enough zucchinis?
4. Lizbeth wants to carpet her 20 ft. by 15 ft. room with some nice orange shag to impress her boyfriend. If the rug costs $2.25 per square foot, how many quarters does she have to spend to carpet her whole room?
5. D’Jean is quite a chef, and he’s making falafel (he’s into Greek food this week). If the recipe required 3 cups of powdered chick peas for every 2 cups of water, and 2 Tbs. of parsley for every ½ tsp. of salt. If he has already used 5 cups of powdered chickpeas in a bowl, how much water should he add?
6. Jennifer is soon to marry Matthew, and she wants her veil to be 25 feet long. If the white lace material costs $0.07 per inch, how much money will she spend?
7. JaNei and Sanderson decide to throw a party to celebrate the 165th birthday of the inventor of the periodic table – your friend and mine (Dmitri Mendeleev). If they require a cover charge of $12 (they’re giving everyone their own pocket periodic table), and 414 guests show up, how many dollars will they make?
8. Mia wants to put purple lights on the bottom of her car, but she can’t afford to buy them right now, and must rent them. If the lights cost 245 pennies to rent for 45 minutes and Mia has $20, how many days will she be able to rent the lights?
9. Rodney is a fast writer. He can write 55 words in a minute, and he is taking an exam that is four pages long. If he can fit 316 words on a page, how many hours will it take Rodney to finish the test?